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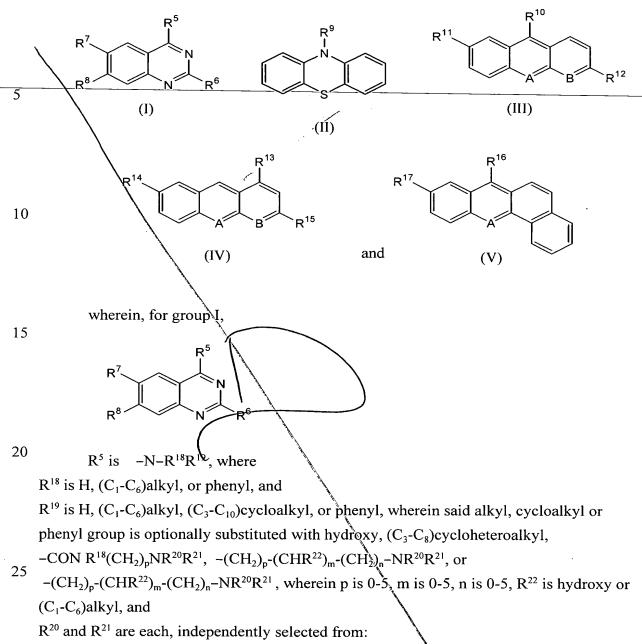
## **CLAIMS**

What is claimed is:

- 1. A method of promoting a wild-type activity in a mutant form of a human protein of the p53 family, wherein one or more functional activities of said protein are at least partially impaired by the inability of said protein to maintain a functional conformation under physiological conditions, said method comprising the steps of:
  - (a) contacting said mutant protein with an organic non-peptide compound that is capable of binding to one or more domains in said mutant protein under physiological conditions and stabilizing a functional conformation therein, and
  - (b) permitting said stabilized protein to interact with one or more macromolecules that participate in said wild type activity.
- 2. The method of claim 1 wherein said protein is selected from the group consisting of p53, p63, and p73.
  - 3. The method of claim 2 wherein said protein is p53.
- 4. The method of claim 1, wherein said organic non-peptide compound is selected from the group consisting of:

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(a) H, (C<sub>1</sub>-C<sub>12</sub>)alkyl, (C<sub>3</sub>-C<sub>12</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>12</sub>)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, or (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl; or

(b)  $NR^{20}R^{21}$  taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine;

R<sup>6</sup> is

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- (a)  $(C_1-C_6)$ alkyl or  $(C_2-C_8)$ alkenyl, each optionally substituted by one or more phenyl groups, or
- (b) phenyl substituted by halo, (C<sub>1</sub>-C<sub>6</sub>)alkoxy; and R<sup>7</sup> and R<sup>8</sup> are the same, or different, and are selected from H, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group II,

R<sup>9</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C<sub>3</sub>-C<sub>8</sub>)cycloheteroalkyl, -CON

5 R<sup>18</sup>(CH<sub>2</sub>)<sub>p</sub>NR<sup>20</sup>R<sup>21</sup>, -(CH<sub>2</sub>)<sub>m</sub>-(CH<sub>2</sub>)<sub>m</sub>-NR<sup>20</sup>R<sup>21</sup>, or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $(CH_2)_n$ - $(CH_2)_n$ - $(CH_2)_n$ - $(CH_2)_p$ - $(CH_2)_n$ - $(CH_$ 

R<sup>20</sup> and R<sup>21</sup> are each independently selected from H, (C<sub>1</sub>-C<sub>12</sub>)alkyl, (C<sub>3</sub>-C<sub>12</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>12</sub>)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, or (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl;

wherein, for group III,

$$R^{11}$$

$$R^{10}$$

$$R^{10}$$

$$R^{11}$$

\$30\$  $$R^{10}$$  is  $-N-R^{18}R^{19},$  where

R<sup>18</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, or phenyl, and

 $R^{19}$  is H,  $(C_1-C_6)$ alkyl,  $(C_3-C_{10})$ cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy,  $(C_3-C_8)$ cycloheteroalkyl,

$$\frac{1}{25} -\text{CON R}^{18}(\text{CH}_2)_p \text{NR}^{20} \text{R}^{21}, -(\text{CH}_2)_p -(\text{CHR}^{22})_m -(\text{CH}_2)_n -\text{NR}^{20} \text{R}^{21}, \text{ or}$$

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 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$ , wherein p is 0-5, m is 0-5, n is 0-5,  $R^{22}$  is hydroxy or  $(C_1$ - $C_6)$ alkyl, and

R<sup>20</sup> and R<sup>21</sup> are each, independently selected from:

- (a) H, (C<sub>1</sub>-C<sub>12</sub>)alkyl, (C<sub>3</sub>-C<sub>12</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>12</sub>)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, or (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-
- (b)  $NR^{20}R^{21}$  taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and R<sup>11</sup> and R<sup>12</sup> are the same, or different, and are selected from H, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group IV,

 $R^{13}$  is  $-N-R^{18}R^{19}$ , where

C<sub>10</sub>)aryl; or

R<sup>18</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, or phenyl, and

 $R^{19}$  is H,  $(C_1-C_6)$ alkyl,  $(C_3-C_{10})$ cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy,  $(C_3-C_8)$ cycloheteroalkyl,

-CON  $R^{18}(CH_2)_pNR^{20}R^{21}$ , - $(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_q)_n$ - $NR^{20}R^{21}$ , or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$ , wherein p is 0.5, m is 0.5, n is 0.5, R<sup>22</sup> is hydroxy or  $(C_1$ - $C_6$ )alkyl, and

 $R^{20} \ \text{and} \ R^{21}$  are each, independently selected from:

- (a) H, (C<sub>1</sub>-C<sub>12</sub>)alkyl, (C<sub>3</sub>-C<sub>12</sub>)cycloalkyl, (C<sub>3</sub>-O<sub>10</sub>)heterocycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>6</sub>-C<sub>10</sub>)aryl, and (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>3</sub>-O<sub>10</sub>)heterocycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl and (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl; or
- (b)  $NR^{20}R^{21}$  taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and

 $R^{14}$  and  $R^{15}$  are the same, or different, and are selected from H, nitro,  $(C_1-C_6)$ alkoxy, or halogen selected from fluoro, chloro, and bromo; and wherein, for group V,

5 R<sup>16</sup>

A is carbon or nitrogen;

 $R^{16}$  is  $-N-R^{18}R^{19}$ , where

 $R^{18}$  is H,  $(C_1-C_6)$ alkyl, or phenyl, and

 $R^{19}$  is H,  $(C_1-C_6)$ alkyl,  $(C_8-C_{10})$ cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy,  $(C_3-C_8)$ cycloheteroalkyl,

15  $-\text{CON R}^{18}(\text{CH}_2)_p\text{NR}^{20}\text{R}^{21}$ ,  $-(\text{CH}_2)_p\text{-}(\text{CHR}^{22})_m\text{-}(\text{CH}_2)_n\text{-NR}^{20}\text{R}^{21}$ , or  $-(\text{CH}_2)_p\text{-}(\text{CHR}^{22})_m\text{-}(\text{CH}_2)_n\text{-NR}^{20}\text{R}^{21}$ , wherein p is 0-5, m is 0-5, n is 0-5, R<sup>22</sup> is hydroxy or  $(\text{C}_1\text{-C}_6)$ alkyl, and

R<sup>20</sup> and R<sup>21</sup> are each, independently selected from:

- (a) H, (C, C<sub>12</sub>)alkyl, (C<sub>3</sub>-C<sub>12</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl, and (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, or wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, or (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl; or
- 25 (b)  $NR^{20}R^{21}$  taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine; and

R<sup>17</sup> selected from H, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or halogen selected from fluoro, chloro, and bromo.

- 5. The method of Claim 1 wherein said organic non-peptide compound binds to the DNA binding domain, residues 94 to 312, of human p53 protein.
  - 6. The method of claim 5 wherein the DNA binding domain of said p53 protein comprises a missense mutation at an amino acid position selected from the group consisting of residues 143, 173, 175, 241 and 249.

- 7. The method of claim 1 wherein steps (a) and (b) are performed simultaneously.
  - 8. The method of claim 1 wherein steps (a) and (b) are performed sequentially.

- 9. A method of treating a human subject for a disease state associated with possession of a mutant protein of the p53 family having one or more diminished wild-type activities, comprising the steps of:
- (a) administering to said subject an organic non-peptide compound that is capable of binding to one or more domains in said mutant protein under physiological conditions, and stabilizing a functional conformation therein, and
  - (b) permitting said stabilized protein in said patient to interact with one or more macromolecules that participate in said wild-type activity.
- 15 10. The method of claim 9 wherein said protein is selected from the group consisting of p53, p63 and p73.
  - 11. The method of claim 10 wherein said protein is p53.
- 12. The method of Claim 10 wherein said organic non-peptide compound binds to the DNA binding domain, residues 94 to 312, of human p53 protein.
- 13. The method of claim 12 wherein the DNA binding domain of said p53 protein comprises a missense mutation at an amino acid position selected from the group consisting of residues 143, 173, 175, 241 and 249.
  - 14. The method of claim 9 wherein steps (a) and (b) are performed simultaneously.

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- 15. The method of claim 9 wherein steps (a) and (b) are performed sequentially.
- 16. The method of claim 10 wherein said disease state is cancer.
- 17. A method of treating a human subject for cancer comprising the steps of:

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- administering to said subject an organic non-peptide compound that is capable of binding to one or more domains of a human protein of the p53/family under physiological conditions, and stabilizing a functional conformation therein, and
  - permitting said stabilized protein to interact with one for more
- 5 macromolecules that participate in a wild-type activity of said protein.
  - The method of claim 17 wherein said protein is selected from the group 18. consisting of p53, p63, and p73.
- 10 19. The method of claim 17 wherein said protein is p53.
  - 20. The method of claim 17, wherein said organic non-peptide compound is selected from the group consisting of:

$$R^{7}$$
 $R^{8}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{10}$ 
 $R^{11}$ 
 $R^{10}$ 
 $R^{11}$ 
 $R^{12}$ 
 $R^{13}$ 
 $R^{14}$ 
 $R^{15}$ 
 $R^{15}$ 
 $R^{17}$ 
 $R^{16}$ 
 $R^{17}$ 
 $R^{16}$ 
 $R^{17}$ 
 $R^{19}$ 
 $R^{$ 

 $-N-R^{18}R^{19}$ , where R<sup>5</sup> is  $R^{18}$  is H,  $(C_1/C_6)$ alkyl, or phenyl, and

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 $R^{19} \text{ is H, } (C_1\text{-}C_6) \text{alkyl, } (C_3\text{-}C_{10}) \text{cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, } (C_3\text{-}C_8) \text{cycloheteroalkyl, } -\text{CON } R^{18} (\text{CH}_2)_p \text{NR}^{20} R^{21}, \text{ -(CH}_2)_p \text{-(CHR}^{22})_m \text{-(CH}_2)_n \text{-NR}^{20} R^{21}, \text{ or } -(\text{CH}_2)_p \text{-(CHR}^{22})_m \text{-(CH}_2)_n \text{-NR}^{20} R^{21}, \text{ wherein p is 0-5, n is 0-5, R}^{22} \text{ is hydroxy or } -\text{CH}_2 \text{-(CH}_2)_n \text{-NR}^{20} R^{21}, \text{ wherein p is 0-5, n is 0-5, n is 0-5, n}$ 

5 ( $C_1$ - $C_6$ )alkyl, and

R<sup>20</sup> and R<sup>21</sup> are each, independently selected from:

- (a) H,  $(C_1-C_{12})$ alkyl,  $(C_3-C_{12})$ cycloalkyl,  $(C_3-C_{10})$ heterocycloalkyl,  $(C_6-C_{10})$ aryl,  $(C_5-C_9)$ heteroaryl,  $(C_1-C_6)$ alkyl $(C_6-C_{12})$ aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy
- C<sub>6</sub>)alkyl(C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, or (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>70</sub>)aryl; or
   (b) NR<sup>20</sup>R<sup>21</sup> taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine;
   R<sup>6</sup> is
  - (a)  $(C_1-C_6)$ alkyl or  $(C_2-C_8)$ alkenyl, each optionally substituted by one or more phenyl groups, or
    - (b) phenyl substituted by halo,  $(C_1/C_6)$ alkoxy; and

R<sup>7</sup> and R<sup>8</sup> are the same, or different, and are selected from H, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group II,

R<sup>9</sup> N

 $R^9$  is  $(C_1-C_6)$ alkyl,  $(C_3-C_{10})$ cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy,  $(C_3-C_8)$ cycloheteroalkyl, -CON  $R^{18}(CH_2)_pNR^{20}R^{21}$ ,  $-(CH_2)_p-(CHR^{22})_m-(CH_2)_n-NR^{20}R^{21}$ , or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$ , wherein p is 0-5, m is 0-5, n is 0-5, R<sup>22</sup> is hydroxy or  $(C_1$ - $C_6$ )alkyl, and

 $R^{20}$  and  $R^{21}$  are each independently selected from H,  $(C_1-C_{12})$ alkyl,  $(C_3-C_{12})$ cycloalkyl,  $(C_3-C_{10})$ heterocycloalkyl,  $(C_6-C_{10})$ aryl,  $(C_5-C_9)$ heteroaryl,  $(C_1-C_6)$ alkyl $(C_6-C_{12})$ aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkyl $(C_3-C_{10})$ heterocycloalkyl,  $(C_1-C_6)$ alkyl $(C_5-C_9)$ heteroaryl, or  $(C_1-C_6)$ alkyl $(C_6-C_{10})$ aryl;

wherein, for group III,

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 $R^{10}$  is  $-N-R^{18}R^{19}$ , where

 $R^{18}$  is H,  $(C_1-C_6)$ alkyl, or phenyl, and

 $R^{19}$  is H,  $(C_1-C_6)$ alkyl,  $(C_3-C_{10})$ cycloalkyl, or phenyl wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy,  $(C_3-C_8)$ cycloheteroalkyl,

10  $-\text{CON R}^{18}(\text{CH}_2)_p\text{NR}^{20}\text{R}^{21}$ ,  $-(\text{CH}_2)_p\text{-}(\text{CHR}^{22})_m\text{-}(\text{CH}_2)_n\text{-NR}^{20}\text{R}^{21}$ , or  $-(\text{CH}_2)_p\text{-}(\text{CHR}^{22})_m\text{-}(\text{CH}_2)_n\text{-NR}^{20}\text{R}^{21}$ , wherein p is 0-5, m is 0-5, n is 0-5, R<sup>22</sup> is hydroxy or  $(\text{C}_1\text{-C}_6)$ alkyl, and

R<sup>20</sup> and R<sup>21</sup> are each, independently selected from:

(a) H, (C<sub>1</sub>-C<sub>12</sub>)alkyl, (C<sub>3</sub>-C<sub>12</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>6</sub>-C<sub>10</sub>)aryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>12</sub>)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, or (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl; or

(b)  $NR^{20}R^{21}$  taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and R<sup>11</sup> and R<sup>12</sup> are the same, or different, and are selected from H, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or halogen selected from fluoro, chloro, and bromo;

wherein, for group IV,

R<sup>14</sup>
B
R<sup>13</sup>

 $R^{13}$  is  $-N-R^{18}R^{19}$ , where

 $R^{18}$  is H,  $(C_1-Q_6)$ alkyl, or phenyl, and

R<sup>19</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>10</sub>)cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C<sub>3</sub>-C<sub>8</sub>)cycloheteroalkyl, -CON R<sup>18</sup>(CH<sub>2</sub>)<sub>p</sub>NR<sup>20</sup>R<sup>21</sup>, -(CH<sub>2</sub>)<sub>p</sub>-(CHR<sup>22</sup>)<sub>m</sub>-(CH<sub>2</sub>)<sub>p</sub>-NR<sup>20</sup>R<sup>21</sup>, or

 $-(CH_2)_p$ - $(CHR^{22})_m$ - $(CH_2)_n$ - $NR^{20}R^{21}$ , wherein p is 0-5, m is 0-5, n is 0-5, R<sup>22</sup> is hydroxy or  $(C_1$ - $C_6$ )alkyl, and

R<sup>20</sup> and R<sup>21</sup> are each, independently selected from:

- (a) H,  $(C_1-C_{12})$ alkyl,  $(C_3-C_{12})$ cycloalkyl,  $(C_3-C_{10})$ heterocycloalkyl,  $(C_1-C_{12})$
- C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>5</sub>-C<sub>9</sub>)heteroaryl, (C<sub>6</sub>-C<sub>10</sub>)aryl, and (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl, wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>3</sub>-C<sub>10</sub>)heterocycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>5</sub>-C<sub>9</sub>)heteroaryl and (C<sub>1</sub>-C<sub>6</sub>)alkyl(C<sub>6</sub>-C<sub>10</sub>)aryl; or
- (b)  $NR^{20}R^{21}$  taken together represent hydrogen, morpholine, or 4-(C<sub>1</sub>-C<sub>6</sub>) alkylpiperizine;

A and B are the same or different, and each represents carbon or nitrogen; and R<sup>14</sup> and R<sup>15</sup> are the same, or different, and are selected from H, nitro, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, or halogen selected from fluoro, chloro, and bromo; and wherein, for group V,

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A is carbon or nitrogen;

R<sup>16</sup> is -N-R<sup>18</sup>R<sup>19</sup>, where

R<sup>18</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, or phenyl, and

R<sup>19</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, ( $C_3$ -C<sub>10</sub>)cycloalkyl, or phenyl, wherein said alkyl, cycloalkyl or phenyl group is optionally substituted with hydroxy, (C<sub>3</sub>-C<sub>8</sub>)cycloheteroalkyl, -CON R<sup>18</sup>(CH<sub>2</sub>)<sub>p</sub>NR<sup>20</sup>R<sup>21</sup>, -(CH<sub>2</sub>)<sub>p</sub>-(CHR<sup>22</sup>)<sub>m</sub>-(CH<sub>2</sub>)<sub>n</sub>-NR<sup>20</sup>R<sup>21</sup>, or -(CH<sub>2</sub>)<sub>p</sub>-(CHR<sup>22</sup>)<sub>m</sub>-(CH<sub>2</sub>)<sub>n</sub>-NR<sup>20</sup>R<sup>21</sup>, wherein p is 0-5, m is 0-5, R<sup>22</sup> is hydroxy or (C<sub>1</sub>-C<sub>6</sub>)alkyl, and

R<sup>20</sup> and R<sup>21</sup> are each, independently selected from:

(a) H,  $(C_1-C_{12})$ alkyl,  $(C_3-C_{12})$ cycloalkyl,  $(C_3-C_{10})$ heterocycloalkyl,  $(C_6-C_{10})$ aryl,  $(C_5-C_9)$ heteroaryl,  $(C_1-C_6)$ alkyl $(C_6-C_{10})$ aryl, and  $(C_1-C_6)$ alkyl $(C_5-C_9)$ heteroaryl, or wherein said groups are optionally substituted by one or more hydroxy, halo, amino, trifluoromethyl,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkyl $(C_3-C_{10})$ heterocycloalkyl,  $(C_1-C_6)$ alkyl $(C_5-C_9)$ heteroaryl, or  $(C_1-C_6)$ alkyl $(C_6-C_{10})$ aryl; or

2.5